

Ethernet Extension Experts



Enable-IT 850 CPE Ethernet Extender User Manual



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ABOUT THIS GUIDE

This guide provides all the information needed to install and use the Enable-IT 850 CPE Ethernet Extender Kit. This guide is intended for use by technicians who are responsible for installing and setting up network equipment. Consequently, it is assumed that the installer has a basic working knowledge of LANs (Local Area Networks) and voice telecom wiring.

If the information in the release notes that are shipped with your product differs from the information in this guide, follow the instructions in the release notes.

Most user guides and release notes are available in Adobe Acrobat

Reader Portable Document Format (PDF) or HTML on the Enable-IT World Wide Web site: http://www.ethernetextender.com/manuals/850_CPEManual.pdf

INTRODUCING THE 850 CPE ETHERNET EXTENDER

Congratulations on purchasing the Enable-IT's 850 CPE Ethernet Extender — the simplest method to stretch your broadband solutions for in-building deployment in commercial office buildings, hotels, and multi-tenant residential units.

The 850 CPE Extended Ethernet Unit offers the Lowest Cost Solution in a simple design for rapid install using existing 1 pair Telco wiring.

This chapter contains introductory information about The 850 CPE Extended Ethernet Unit and how it can be used in your network. It covers the following topics:

- About the 850 CPE Extended Ethernet Unit
- Key Benefits
- Summary of Features
- Typical Applications

About the 850 CPE Extended Ethernet

The 850 CPE Extended Ethernet Kit solves the problem of high costs associated with stretching your backbone with traditional fiber or a series of hubs/repeaters.

In many office buildings, preferred network access is a dedicated Ethernet line, however Ethernet over twisted pair wiring has its distance limitations of just 328 ft. In order to drive Ethernet signal further, one would have to add repeaters to each segment of 328ft twisted pair cabling; this is often insufficient and too costly in multi-story buildings. Fortunately, the Enable-IT 850 CPE Series Extended Ethernet can push the reach of Ethernet to more than (20) twenty times the typical Ethernet distance over a 1-pair Telco wiring infrastructure or better.

A simple design methodology would be to think of the 850 CPE extending a standard Ethernet line up to 8,000 (2,440m) with a (4) Port 10/100 Ethernet switch and can also include dual voice lines simultaneously.

To increase the durability and extended use of the product providing maximum future technology protection, 850 CPE Extended Ethernet Unit meets the challenge of modern switched LANs and allows you to add features and capacity as your network expands. The Enable-IT 850 CPE Extended Ethernet has been tested to provide full duplex transport up to 90MB/s over CAT2, and up to 100MB/s over CAT5e cabling.

Unit Model	Wiring	LAN Data Rate	Max. Distance
850 CPE	(1) pair CAT 2 up to CAT5e	100Mbps FD	8,000ft / 2,440m

Up to 700ft (200m) - 100Mbps
 700ft (200m) to 1,350ft (400m) - 90Mbps
 1,350ft (400m) to 1,970ft (600m) - 70Mbps
 1,970ft (600m) to 2,625ft (800m) - 52Mbps
 2,625ft (800m) to 3,280ft (1000m) - 42Mbps
 3,300ft (1005m) to 6,000(1,828m) - 30Mbps
 6,000ft(1,828m) to 8,000(2,440m) - 15Mbps

* Actual data rate will vary on the quality of the copper wire, twisted pair and environmental factors

Key Benefits

The following list identifies the 850 CPE Extended Ethernet Unit key benefits.

- Dramatic cost reduction over any competing technology and includes a (4) Port 10/100 LAN switch on each end.
- Broadband technology that delivers in-building Ethernet access over 1 pair of existing Category 2 up to Category 5e wiring up to 8,000', whether spare or actively in use for analog or digital voice. This means no new wiring is required.
- Provides one scalable infrastructure for Internet access, POTS, VoIP, video, and virtual private networking.
- Rapid installation with small box profile, no programming and no firmware to upgrade.
- Low profile box with dual POTS line and Ethernet data all in a single RJ-11 Ethernet jack (Interlink port).
- Quad switched LAN RJ-45 10/100 Ethernet ports for expansion without adding a hub or switch on each end.

Summary of Features

The Enable-850 CPE Extended Ethernet has the following hardware features:

- Extended Ethernet line over existing CAT 2 up to CAT5e / CAT6 wiring
- Uses RJ-11 Interlink port for transport (Dual voice, 100Mbps data and native PoE)
- Rapid Telco style installation – no programming required
- Supports digital VoD channels and Maintains existing telephone (lifeline POTS)
- Drives Ethernet 100 Mbps full-duplex service delivery with quad LAN switch, dual voice up to 8,000ft or 2,440m - can also transport PoE up to 1,500ft natively.
- Network Equipment independence – Transparent to protocols/applications/MAC

Specifications:

Power Indicator
100Mbps Link status/Activity
VDSL2 Link Status/Activity

Functionality:

Data Rates 100Mbps Full Duplex
Full Duplex/Half Duplex status/Collisions
Protocol independent

Dimensions:

Height: 1" (25mm)
Depth: 3.5" (90mm)
Width: 6" (152.4mm)

850 CPE Interlink port pins:

Pins 1 & 2 – Voice line 1 and Data
Pins 3 & 4 – Voice line 2 and Data

Environment

Operating temp: -49°F to 168°F (-45°to 76°C)
Storage temp: -49°F to 168°F (-45°to 76°C)
Humidity 5% to 95%, non-condensing

Interfaces

- (1) 5v 2A DC Power Adapter 2.5mm
- (1) RJ-11 Interlink Port
- (1) RJ-11 Phone Port
- (4) RJ-45 100MB LAN Auto negotiate

Typical Use Applications

Enable-IT 850 CPE Extended Ethernet Units are usually installed into telephone wiring infrastructures where extension of backbone services is required and expensive fiber options are prohibitive. The 850 CPE Extended Ethernet Units allow a standard Ethernet segment to be deployed quickly over existing 1 pair Telco Copper Wiring in combination with existing POTS voice signals. The 850 CPE Interlink port (RJ-11 interface) carries this 1-pair signaling over the RJ-11 pins (1 & 2) - used for transport for both voice and data. If you use more than 1-pair of wiring such as a CAT5 segment, the RJ-45 pins (3 & 6) are used for Voice line 2 and the remaining pins 4,5,7 & 8 can transport native 802.3af PoE or are unused. Quad LAN RJ-45 10/100 autosensing ports allow the use of LAN devices without adding an Ethernet hub or switch to either end.

Installers have the convenience of a 100Mbps LAN Ethernet unit for peace of mind connectivity and no device maintenance. Rapid installation allows for minimal interruption and the Broadband technology allows for investment protection up to 10 -15 years with no firmware or replacement issues. Bandwidth can be scaled according to the Broadband Access Provider needs. The 850 CPE Extended Ethernet Unit is a passive device so interruption of Internet service does not affect POTS services. Carriers and Access Providers can come and go, but the 850 CPE Extended Ethernet Unit technologies continue to provide lasting value such as the other utilities like Water, gas and electricity.

The Enable-IT 850 CPE Extended Ethernet Unit is suited for the following key environments:

- **Commercial Buildings (Multi-Tenant Units)**
- **Business Parks (Multi-Tenant Units)**
- **Apartments (Multi-Residential Units)**
- **Hotels (Multi-Hospitality Units)**
- **Business Suites (Multi-Hospitality Units)**
- **School Campuses (University, K-12)**
- **College Housing (Multi-Residential Units)**
- **Mining Operations – Quarries, Mine shafts**
- **Nautical Infrastructure – Cruise ships, Marinas, dive operations, subs**
- **Video Surveillance/Security**
- **WiFi Deployment – ISP's, RV Parks, Construction sites**
- **Manufacturing – Foundries, pharmaceutical, aerospace, automotive, petroleum, concrete plants, etc.**
- **Retail POS – Department stores, Bars, restaurants, retail spaces**
- **Government – Naval ships, FEMA, Housing, USGS, National Parks, Forestry, Research stations, NASA, utilities, etc.**
- **Education – outdoor camps, college campuses**
- **Healthcare – Hospitals, elder care, outpatient facilities**
- **Entertainment – Movie theaters, home entertainment, fairs, outdoor venues**

INSTALLING THE 850 CPE EXTENDED ETHERNET

The Enable-IT 850 CPE Extended Ethernet Units have a distance restriction of 8,000ft or 2,440m over 1-pair of Category 2 up to Category 5e / CAT6 wiring from device extension to device extension. Therefore quick, simple site surveys and installation planning are highly recommended.

This chapter describes the recommended installation process for the Enable-IT 850 CPE Extended Ethernet Unit. It covers the following topics:

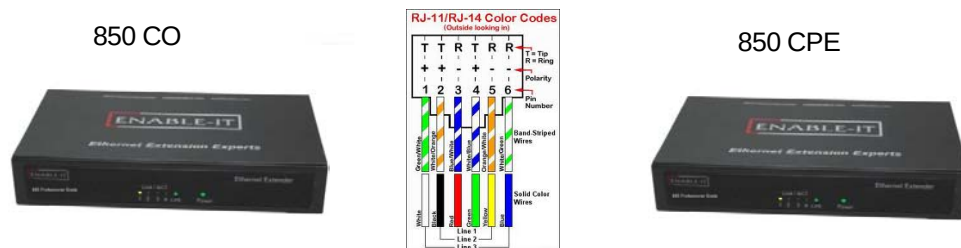
- Site Plan – Installation Design Considerations
- Unpacking the Enable-IT 850 CPE Ethernet Extender
- Perform an out of the box Test
- Performing the On-Site Installation

Site Plan - Installation Design Considerations

The planning process should involve a site walkthrough and discovery survey. Electrical Cable measurement tools are the most reliable method to determine the longest run of hidden wiring. Estimate the best locations to position the Broadband Concentrators to adequately reach desired connectivity on each floor. Document your findings to use in designing a network topology to support the Ethernet Switches and backbone connectivity. Key points to remember in the Site Survey.

- Total distance limitation of 8,000ft or 2,440m from end to end.
- 1 Pair CAT-2 wiring or better cabling is required for the 850 CPE Interlink transmission.

The 850 CPE Interlink port (RJ-11 interface) carries this 1-pair signaling over the RJ-11 pins (1 & 2) - used for transport for both voice and data. If you use more than 1-pair of wiring such as a CAT5 segment, the RJ-45 pins (3 & 6) are used for Voice line 2 and the remaining pins 4,5,7 & 8 are can transport native PoE or are unused.



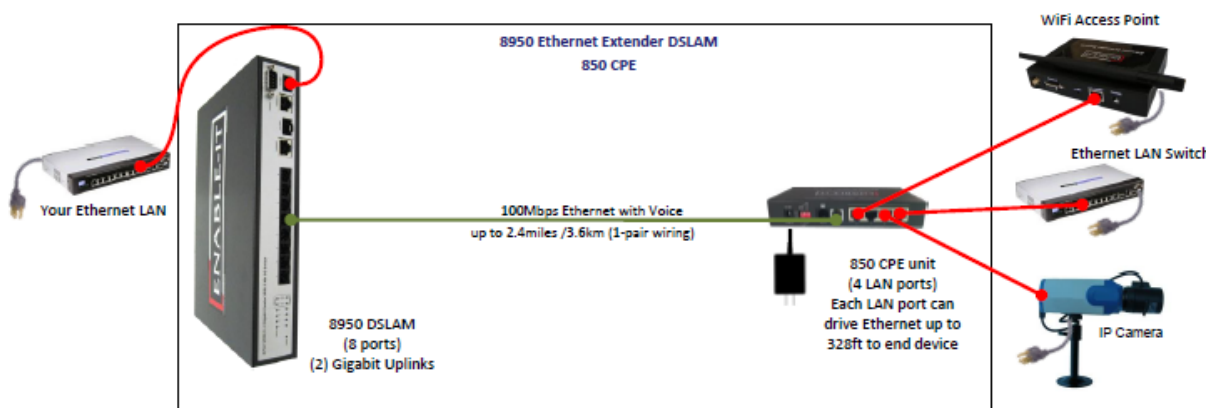
Unpacking the Enable-IT 850 CPE Extended Ethernet

Carefully remove the Enable-IT 850 CPE Extended Ethernet units all packing materials from the box. Verify that the items listed below are present. Make sure that the equipment supplied matches what you ordered. If any items are missing or damaged, please contact Enable-IT or your distributor for assistance.

- (1) The Enable-IT 850 CPE Extended Ethernet Units
 - o 5v AC/DC Country Specific Power adapter
 - o Telephone patch cord
- (1) Enable-IT 850 CPE Extended Ethernet User Manual (this manual)

Perform an out of the box Test

We highly recommend a quick test to ensure the working order of you 850 CPE units. To do this, please use one of the Telephone patch cords provided and attach to the 850 CPE Interlink port and then to the 8950 DSLAM Interlink port. Power up both 850 CPE units and the 8950 DSLAM Concentrator. The Green Sync LEDs will start flickering slowly and then fast as the units talk to each other. After a few seconds you should see a solid Green Interlink Sync LED on each 850 CPE unit to confirm a link is established. The 8950 DSLAM will take about 30 seconds to startup then link will be established with the 850 CPE. This confirms basic proper operation of the units. Next for a more detailed test and to confirm your LAN Equipment works with the 850 CPE, connect your Ethernet LAN to the 8950 DSLAM and remote device to the 850 CPE LAN ports and test connectivity. The Green Interlink Sync LED will pulse rapidly as it detects traffic.



LED indicators will provide visual operational status of the 850 CPE units.

- Sync** - Slow to fast flicker on power up – indicates negotiation of a link.
Solid Green LED indicates link established and rapid pulse is traffic.
- Pwr** - Solid Green LED indicates that both units are receiving 5v power.
- Mode** - Solid Yellow LED on CPE unit only – No LED lit on CO
- ACT** - Yellow LEDs – Lit solid indicates the presence of local LAN
– Blinking indicates the presence of local LAN traffic

Performing the On-Site Installation

After removing the Enable-IT 850 CPE Extended Ethernet from the box and performing the out of the box testing all that remains to install the unit on-site is to mount the unit, build the interconnect wiring, add voice lines if needed and attach the LAN device cabling with the provided Ethernet Patch cords.

❶ Building the 850 CPE Interlink wiring

The most important aspect of the install is the correct wiring of the Interlink cabling. You have the option of using RJ-11 blank male heads for this cabling. For all wiring you will need to crimp a RJ-11 to each end of the contiguous wire run and using the following pins (1 & 2) straight through. This will deliver 1 Voice line, Ethernet Data. Insert the completed RJ-11 ends into the 850 CPE Interlink port on each 850 CPE unit and to the 8950 DSLAM Concentrator.

The 850 CPE Interlink port (RJ-11 interface) carries this 1-pair signaling over the RJ-11 pins (1 & 2) - used for transport for both voice and data. If you use more than 1-pair of wiring such as a CAT5 segment, the RJ-45 pins (3 & 6) are used for Voice

line 2 and the remaining pins 4,5,7 & 8 are can transport native PoE or are unused.

- ② Attaching cabling and devices to the Enable-IT 850 CPE Extended Ethernet.
Attach your remote LAN device to the 850 CPE unit LAN ports with Ethernet patch cord provided. Attach your local LAN to the 8950 DSLAM LAN ports with Ethernet patch cord provided. Attach the power adapter to the 850 CPE units and power supply to the 8950 DSLAM. Your equipment should now be powered up and functioning.

LED indicators will provide visual operational status of the 850 CPE units.

- Sync** - Slow to fast flicker on power up – indicates negotiation of a link.
Solid Green LED indicates link established and rapid pulse is traffic.
- Pwr** - Solid Green LED indicates that both units are receiving 5v power.
- Mode** - Solid Yellow LED on CPE unit only – No LED lit on CO
- ACT** - Yellow LEDs – Lit solid indicates the presence of local LAN
– Blinking indicates the presence of local LAN traffic

- ③ For troubleshooting, first examine the backbone wiring pair and make sure you have solid connections. The Interlink Sync LED will be lit solid Green with rapid pulsing on each 850 CPE unit to show proper connection and pairing. If the Interlink Sync LED Link is flashing slow to fast and never goes solid Then follow the steps below:

- 1) Make sure your wiring is straight through and not connected to any Telco punch down block; If so remove from the block and use Telco butt clips to bridge wire.
- 2) Check for a firm connection of the RJ-11 connections in each 850 CPE unit and 8950 DSLAM, and power is applied to both the DSLAM and CPE units.
- 3) You can easily isolate any issue by performing an out of the box test confirm either the 850 CPE or your wiring. It is possible an outside interference has been introduced into your wiring.

Performance Settings

A DIP Switch is provided on the left side of each unit for setting line performance attributes.

If the Interlink cabling is more than 1,900ft / 580m – Set DIP Switch 3 up For 17a mode. This optimizes faster symmetrical throughput at higher distances.



If the Interlink cabling is less than 1,900ft 580m - the DIP switch 3 must be down For 30a mode (set to ON) position for the unit to work properly.

Default DIP settings

- 850 CPE – All down set in the ON position
- 850 CO – DIP position 1 up (OFF)
DIPs 2-4 down (ON)
- DIP 1 – CO/CPE mode
- DIP 2 – Fast/Interleave mode
- DIP 3 – 30a/17a mode – short distance or long distance mode
- DIP 4 – 6dB/9dB – 9dB mode cleans up the signal noise ratio on the telephone wiring

Technical Support

Enable-IT OEM Technical Support is available directly to customers and distributors. All support requests are processed through the online support portal. This allows us to provide assigned support ticket numbers in order to bring closure to any technical issues.

Online Technical Services

The Enable-IT Support Portal is available 24/7. No password or user account is necessary. Please use this support website as your first source for help as it contains an on line knowledge base of articles, documentation, FAQ's and other problem-solving resources. This web-based support resource provides the quickest solution to the most common technical support issues.

<http://support.enableit.com>

Returning Products for Warranty Repair

Enable-IT, Inc. warrants to the original purchaser of the Product ("you" or the "End User") that, for the four (4) year period commencing on the date the Product was purchased (the "Warranty Period"), the Product will be substantially free from defects in materials and workmanship under normal use and conditions. **Electrical damage is not an item that is covered under this warranty or extended warranties.**

If authorized by Enable-IT to return a Product which does not conform to the warranty set forth above, the End User must: (1) obtain a return materials authorization (RMA) number from Enable-IT by contacting the Customer Service Dept. at 888-309-0910 between the hours of 8:00 a.m. and 5:00 p.m. PST and otherwise fully comply with Enable-IT's then-current RMA policy; (2) return the Product to Enable-IT, Inc. in its original packaging freight pre-paid; and (3) provide to Enable-IT the original receipt or bill of sale establishing the date on which the Product was purchased.

Please ship Authorized RMAs to:

Enable-IT Processing Facility
16600 Harbor Blvd, Ste I
Fountain Valley, CA 92708

Returning Products for Refund

45-Day refund applies to single kit Ethernet Extenders only and is subject to a 15% Restocking Fee. Shipments without valid / authorized RMA number or sent to our corporate Las Vegas Address can be refused and or billed for additional shipping.

ENABLE-IT LIMITED WARRANTY

Enable-IT warrants the Enable-IT 850 CPE Extended Ethernet solely pursuant to the following terms and conditions.

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a. Express Warranty Enable-IT warrants to the original purchaser of the Product ("you" or the "End User") that, for the four (4) year period commencing on the date the Product was purchased (the "Warranty Period"), the Product will be substantially free from defects in materials and workmanship under normal use and conditions. This warranty does not apply to Products which are resold as used, repaired or reconditioned or consumables (such as batteries) supplied with the Product. **Electrical damage is not an item that is covered under this warranty or extended warranties.** Enable-IT does not make any warranty with respect to any third party product, software or accessory supplied with or used in connection with the Product and such third party products, software and accessories, if any, are provided "AS IS." Warranty claims related to such third party products, software and accessories must be made to the applicable third party manufacturer.

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d. Voiding of Warranty. The express warranty set forth above shall not apply to failure of the Product if the Product has been subjected to: (i) physical abuse, misuse, improper installation, abnormal use, power failure or surge, or use not consistent with the operating instructions provided by Enable-IT; (ii) modification (including but not limited to opening the Product housing) or repair by any party in any manner other than as approved by Enable-IT in writing; (iii) fraud, tampering, unusual physical or electrical stress, unsuitable operating or physical conditions, negligence or accidents; (iv) removal or alteration of the Product serial number tag; (v) improper packaging of Product returns; or (vi) damage during shipment (other than during the original shipment of the Product to the End User from Enable-IT, if applicable).

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